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3M General Offices

3M Center St. Paul, Minnesota 55144-1000 612/733-1110 Duns No.: 00-617-3082

ORIGIT.2

MATERIAL SAFETY DATA SHEET

DIVISION: ENGINEERING DOCUMENT SYSTEMS DIVISION TRADE NAME:

3M BRAND TYPE 852 DEVELOPER PREMIX

3M I.D. NUMBER: GB-2000-4173-8 78-6969-5173-6

ISSUED: SEPTEMBER 2, 1992 SUPERSEDES: JULY 31, 1992 DOCUMENT: 10-3575-7

1. INGREDIENT	C.A.S. NO.		PERCENT	
IRONIRON OXIDE (MIXTURE WITH CAS #7439-	7439-89-6	60.0	_	100.0
89-6)	1317-61-9	60.0	_	100.0
POLYSTYRENE	9003-53-6	5.0	-	10.0
CARBON BLACK	1333-86-4		< <	1.0 1.0
C.I. SOLVENT BLUE 5			<	1.0
FUMARATED ROSIN (MIXTURE WITH CAS			_	1 0
#1325-86-6)	65997-04-8		<	1.0
(MIXTURE WITH CAS #1325-86-6)	151-41-7		<	1.0
2. PHYSICAL DATA				
BOILING POINT:	A A A 1 . 7 Water = 1 A A A A A D		essential	ly odorless.
3. FIRE AND EXPLOSION HAZARD DATA				
ELACU DOTAT. N/	٨			

EXTINGUISHING MEDIA: Water spray, Carbon dioxide, Dry chemical SPECIAL FIRE FIGHTING PROCEDURES: Not determined UNUSUAL FIRE AND EXPLOSION HAZARDS:

Dust clouds of this material in combination with an ignition source

may be explosive.
NFPA-HAZARD-CODES: HEALTH 1 FIRE 1 REACTIVITY 0 UNUSUAL REACTION HAZARD: none

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4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
Elevated temperature storage may cause clumping of powder.
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
Combustion products may include oxides of carbon and iron, hydrocarbons, carbon particulates, and styrene monomer.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Observe precautions from other sections. Vacuum to avoid dusting. CAUTION! A vacuum cleaner could be an ignition source. Clean up residue with water. Place in a closed container.

Caution: Powder spill on a floor may create a slip hazard.

RECOMMENDED DISPOSAL:

Disposal in a sanitary landfill or industrial incinerator may be options. Since regulations and disposal options vary, consult applicable waste regulations or local waste disposal authorities prior to disposal.

ENVIRONMENTAL DATA:

No data available.

REGULATORY INFORMATION:

U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).
Since regulations vary, consult applicable regulations or authorities before disposal.

SARA HAZARD CLASS:

FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: No

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:

Wash affected area with soap and water.

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

Drink two glasses of water. Call a physician.

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7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact.

SKIN PROTECTION:

Avoid prolonged or repeated skin contact.

Not required. Wash with soap and water if powder contacts skin.

VENTILATION PROTECTION:

Use in a well-ventilated area.

This developer powder is used with 3M Quantimatic series printers. Adequate ventilation of the printer should be maintained during operation.

RESPIRATORY PROTECTION:

Avoid prolonged inhalation of dust...

PREVENTION OF ACCIDENTAL INGESTION:

Wash hands after handling and before eating.

Do not store or handle in areas where food or liquids are consumed.

RECOMMENDED STORAGE:

Store at room temperature. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Keep away from heat, sparks, open flame, and other sources of ignition.

Avoid generating airborne dusts of this or any other powder.

EXPOSURE LIMITS

INGREDIENTS	VALUE	UNIT	TYPE	AUTH	SKINX
IRON	NONE	NONE	NONE	NONE	
IRON OXIDE (MIXTURE WITH CAS #7439-					
89-6)	NONE	NONE	NONE		
POLYSTYRENE	NONE	NONE	NONE	NONE	
CARBON BLACK	3.5	mg/m3	TWA		
CARBON BLACK	3.5	mg/m3	TWA		
C.I. SOLVENT BLACK 7	NONE	NONE	NONE		
C.I. SOLVENT BLUE 5	NONE	NONE	NONE	NONE	
FUMARATED ROSIN (MIXTURE WITH CAS					
#1325-86-6)	NONE	NONE	NONE	NONE	
MONODODECYL ESTER OF SULFURIC ACID					
(MIXTURE WITH CAS #1325-86-6)	NONE	NONE	NONE	NONE	

* SKIN NOTATION: Listed substances indicated with "Y" under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

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7. PRECAUTIONARY INFORMATION

(CONTINUED)

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Mild Eye Irritation: signs/symptoms can include redness, swelling, pain, and tearing.

Mild Skin Irritation: signs/symptoms can include redness, swelling, and itching.

INHALATION:

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Pancreatic Disorders: signs/symptoms can include unusual thirst and weight changes.

Liver Effects: signs/symptoms can include yellow skin(jaundice) and tenderness of upper abdomen.

Fibrosis (general): signs/symptoms can include shortness of breath and persistent coughing.

IF SWALLOWED:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

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SECTION CHANGE DATES

FIRST AID

SECTION CHANGED SINCE JULY 31, 1992 ISSUE

PRECAUT. INFO.

SECTION CHANGED SINCE JULY 27, 1992 ISSUE

HEALTH HAZD. DATA SECTION CHANGED SINCE JULY 31, 1992 ISSUE

Abbreviations: N/D - Not Determined N/A - Not Applicable

The information on this Data Sheet represents our current data and best opinion as to the proper use in handling of this material under normal conditions. Any use of the material which is not in conformance with this Data Sheet or which involves using the material in combination with any other material or any other process is the responsibility of the user.